

[illegible]

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-GAPEXT=4.000 -MINMATCH=0.100 -LOOPCPL=0.000 -COPEXT=0.000
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Search information block:

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Search authorization block:
Query: US-09-581-241-4
Query length: 548
Database: Issued_Patents_NA:
Database sequences: 351203
Database length: 113238999
Search time (sec): 57.730000

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score list:

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sec documentation block:

Sequence 13, Application US/09111752
Patent No. 6074859
GENERAL INFORMATION:
APPLICANT: HIROKAWA, KOZO
APPLICANT: KAJIYAMA, NAKKI
APPLICANT: MURAKAMI, SEIJI
TITLE OF INVENTION: MUTANT-TYPE BIOLUMINESCENT PROTEIN, A
TITLE OF INVENTION: PROCESS FOR PRODUCING MUTANT-TYPE LJM
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSES: OBJON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
ADDRESSES: P.C.
STREET: 1745 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
CITY: ARLINGTON
STATE: VA
COUNTRY: USA

ZIP: 22202
COMPTON READABLE FORM:

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; COMPUTER READABLE FORM.
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; MEDIUM TYPE: Floppy disk
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; COMPUTER: IBM PC compatible
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; OPERATING SYSTEM: PC-DOS/MS-DOS
;
; SOFTWARE: PatentIn Release #1.0, Version #1.30

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CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/111,752
FILING DATE: 08 JUL-1998
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: OBLON, NORMAN F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 7126-0009-0
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-413-3000

TELEFAX: 703-413-2220

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  Percent Similarity: 99.818  Percent Identity: 99.818

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651 GGTGATCAGATTTTCTACGCTAGAGATCCAAATTATGGAACCAAGTTT 700
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251 MetPheThrThrLeuGlyTyrLeuThrCysGlyPheArgIleValMetLe 267
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267 uThrLysPheAspGluGluThrPheLeuLysThrLeuGlnAspTyrLysC 284
801 AACGAAATTTGACGAAGAGACTTTTAAAAACACTGCAAGATTACAAAT 850
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seq_name: /cgn2_6/ptodata/2/ina/5A_COM5.seq:05-07-903-047-7

seq_documentation_block:

; Sequence 7, Application US/07903047

; Patent No. 5229285

; GENERAL INFORMATION:

; APPLICANT: Kajiyama, Naoki

; APPLICANT: Nakano, Eiichi

; TITLE OF INVENTION: Thermostable Luciferase Of Firefly,

; TITLE OF INVENTION: Thermostable Luciferase Gene Of Firefly, No. 5229285el Reco

; TITLE OF INVENTION: DNA, And Process For The Preparation Of Thermostable

; TITLE OF INVENTION: Luciferase Of Firefly

; NUMBER OF SEQUENCES: 11

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Pennie & Edmonds

; STREET: 1155 Avenue of the Americas

; CITY: New York

; STATE: New York

; COUNTRY: U.S.A.

; ZIP: 10036-2711

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

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: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent In Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/93/03,047
: FILING DATE: 19920623
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Mistrock, S. Leslie
: REGISTRATION NUMBER: 18,872
: REFERENCE/DOCKET NUMBER: 7005-048
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 212 790-9090
: TELEFAX: 212 869-8864/9741
: INFORMATION FOR SEQ ID NO: 7:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1644 base pairs
: TYPE: NUCLEIC ACID
: STRANDEDNESS: single
: TOPOLOGY: unknown
: MOLECULE TYPE: cDNA to mRNA
: US-07-903-047-7

alignment_scores:
  Quality: 2814.00      Length: 548
  Ratio: 5.114         Gaps: 0
  Percent Similarity: 99.818      Percent Identity: 99.635

alignment_block:
US-09-581-241-4 x US-07-903-047-7

Align seg 1/1 to: US-07-903-047-7 from: 1 to: 1644

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seq_documentation_block:
; Sequence 15, Application US/09380C061B
; Patent No. 6265177
;
; GENERAL INFORMATION:
; APPLICANT: SQUIRRELL, DAVID JAMES
; WHITE, PETER JOHN
; LOWE, CHRISTOPHER ROBIN
; MURRAY, JAMES AUGUSTUS HENRY
;
; TITLE OF INVENTION: ENZYME ASSAY FOR MUTANT FIREFLY LOC
;
; NUMBER OF SEQUENCES: 21
;
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPC
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/380,061B
; FILING DATE: 25-Aug-1999
; CLASSIFICATION: <Unknown>
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB96/21026
; FILING DATE: 7-APR-1998
; APPLICATION NUMBER: GB 9707468.8
; FILING DATE: 11-APR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: SADOFF, B. J.
; REGISTRATION NUMBER: 36,663
; REFERENCE/DOCKET NUMBER: 124-725
;
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)816-4000
; TELEFAX: (703)816-4100
;
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1644 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1644
; SEQUENCE DESCRIPTION: SEQ ID NO: 15:
; US-09-380-061B-15

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seq_documentation_block:

; Sequence 8, Application US/08460934
; Patent No. 5814465
; GENERAL INFORMATION:
; APPLICANT: TATSUMI, HIROKI
; APPLICANT: FUKUDA, SATOSHI
; APPLICANT: KIKUCHI, MAMORU
; APPLICANT: KOYAMA, YASUJI
; TITLE OF INVENTION: BIOTINYLATED FIREFLY LUCIFERASE, A GENE
; TITLE OF INVENTION: FOR BIOTINYLATED FIREFLY LUCIFERASE, A RECOMBINANT DNA, A
; TITLE OF INVENTION: PROCESS FOR PRODUCING BIOTINYLATED AND A BIOLUMINESCENT
; TITLE OF INVENTION: ANALYSIS METHOD
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MATER & NEUSTADT,
; ADDRESSEE: P.C.
; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, FOURTH FLOOR
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: USA
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/460,934
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 193798/1994
; FILING DATE: 27-JUL-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 54625/1995
; FILING DATE: 14-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 98857/1995
; FILING DATE: 24-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: OBLON, NORMAN F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 7126-001-0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-413-3000
; TELEFAX: 703-413-2220
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1508 base pairs
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; STRANDEDNESS: double
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; MOLECULE TYPE: DNA (genomic)
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; OTHER INFORMATION: /note= "The nucleotide sequence of
; OTHER INFORMATION: the biotinylated firefly luciferase gene contained in
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TITLE OF INVENTION: BIOTINYLATED FIREFLY LUCIFERASE, A GENE
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? TITLE OF INVENTION: ANALYSIS METHOD
? NUMBER OF SEQUENCES: 14
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
? ADDRESSEE: P.C.
? STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, FOURTH FLOOR
? CITY: ARLINGTON
? STATE: VA
? COUNTRY: USA
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? FILING DATE: 13-JAN-1997
? CLASSIFICATION: 435
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 08/460,934
? FILING DATE: 05-JUN-1995
? APPLICATION NUMBER: JP 193798/1994
? FILING DATE: 27-JUL-1994
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: JP 54525/1995
? FILING DATE: 14-MAR-1995
? APPLICATION DATA:
? APPLICATION NUMBER: JP 98357/1995
? FILING DATE: 24-APR-1995
? ATTORNEY/AGENT INFORMATION:
? NAME: OBLON, NORMAN F.
? REGISTRATION NUMBER: 24,618
? REFERENCE/DOCKET NUMBER: 7126-001-0
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 703-413-3000
? TELEFAX: 703-413-2220
? INFORMATION FOR SEQ ID NO: 8:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 1908 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: double
? TOPOLOGY: unknown
? MOLECULE TYPE: DNA (genomic)
? FEATURE:
? NAME/KEY: misc_feature
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? OTHER INFORMATION: the biotinylated firefly luciferase gene contained in
? OTHER INFORMATION: recombinant p.asm1248 DNA"
? FEATURE:
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; Patent No. 5814465
; GENERAL INFORMATION:
; APPLICANT: TATSUMI, HIROKI
; APPLICANT: FUKUDA, SATOSHI
; APPLICANT: KIKUCHI, HAMORU
; APPLICANT: KOYAMA, YASUJI
; TITLE OF INVENTION: BIOTINYLATED FIRELY LUCIFERASE, A GENE
; TITLE OF INVENTION: FOR BIOTINYLATED FIRELY LUCIFERASE, A RECOMBINANT DNA, A
; TITLE OF INVENTION: PROCESS FOR PRODUCING BIOTINATED AND A BIOLUMINESCENT
; TITLE OF INVENTION: ANALYSIS METHOD
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; ADDRESSEE: P.C.
; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, FOURTH FLOOR
; CITY: ARLINGTON
; STATE: VA
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; COUNTRY: USA
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08-460,934
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 193798/1994
; FILING DATE: 27-JUL-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 54625/1995
; FILING DATE: 14-MAR-1995
; APPLICATION NUMBER: JP 96857/1995
; FILING DATE: 24-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: OBLON, NORMAN F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 7126-001-0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-413-3000
; TELEFAX: 703-413-2220
; INFORMATION FOR SEQ ID NO: 5:
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; LENGTH: 1704 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1704
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; LOCATION: 1..1704
; OTHER INFORMATION:
; OTHER INFORMATION: biotinylated firefly luciferase gene contained in recombin
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US-08-460-934-5
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Ratio: 5.130 Gaps: 0

Percent Similarity: 100.000 Percent Identity: 99.451

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; Sequence 5, Application US/08782118

; Patent No. 5843746

; GENERAL INFORMATION:

; APPLICANT: TATSUMI, HIROKI

; APPLICANT: FUKUDA, SATOSHI

; APPLICANT: KIKUCHI, MAMORU

; APPLICANT: KOYAMA, YASUJI

; TITLE OF INVENTION: BIOTINYLATED FIREFLY LUCIFERASE, A GENE

; TITLE OF INVENTION: FOR BIOTINYLATED FIREFLY LUCIFERASE, A RECOMBINANT DNA, A

; TITLE OF INVENTION: PROCESS FOR PRODUCING BIOTINATED AND A BIOLUMINESCENT

; NUMBER OF SEQUENCES: 14

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,

; ADDRESS: P.C.

; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, FOURTH FLOOR

; CITY: ARLINGTON

; STATE: VA

; COUNTRY: USA

; ZIP: 22202

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/782,118

; FILING DATE: 13-JAN-1997

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CLASSIFICATION: 435
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 08/460,934
  FILING DATE: 05-JUN-1995
  APPLICATION NUMBER: JP 193798/1994
  FILING DATE: 27-JUL-1994
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: JP 54625/1995
  FILING DATE: 14-MAR-1995
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: JP 98857/1995
  FILING DATE: 24-APR-1995
ATTORNEY/AGENT INFORMATION:
  NAME: OBLON, NORMAN F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 7126-001-0
TELECOMMUNICATION INFORMATION:
  TELEPHONE: 703-413-3000
  TELEFAX: 703-413-2220
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
  LENGTH: 1704 base pairs
  TYPE: nucleic acid
  STRANDEDNESS: double
  TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
FEATURE:
  NAME/KEY: CDS
  LOCATION: 1..1704
FEATURE:
  NAME/KEY: misc_feature
  LOCATION: 1..1704
OTHER INFORMATION: /note= "Nucleotide sequence of the
OTHER INFORMATION: biotinylated firefly luciferase gene
OTHER INFORMATION: plasmid pHLf203 DNA"
US-09-782-118-5

alignment_scores:
  Quality: 2801.00      Length: 546
  Ratio: 5.130          Gaps: 0
  Percent Similarity: 100.000      Percent Identity: 99.451

alignment_block:
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Align seg 1/1 to: US-08-782-118-5 from: 1 to: 1704

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? Sequence 1, Application US/07675211
? Patent No. 5219737
? GENERAL INFORMATION:
? APPLICANT: KAJIYAMA, NAOKI
? APPLICANT: NAKANO, EICHI
? TITLE OF INVENTION: MUTANT LUCIFERASE OF A FIREFLY, MUTANT
? TITLE OF INVENTION: LUCIFERASE GENES, NOVEL RECOMBINANT DNAS CONTAINING THE
? TITLE OF INVENTION: GENES AND A METHOD OF PRODUCING MUTANT LUCIFERASE
? NUMBER OF SEQUENCES: 4
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: PENNIE & EDMONDS
? STREET: 1155 AVENUE OF THE AMERICAS
? CITY: NEW YORK
? STATE: N.Y.
? COUNTRY: U.S.A
? ZIP: 10036
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patentin Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/07/675,211
? FILING DATE: 19910326
? CLASSIFICATION: 435
? ATTORNEY/AGENT INFORMATION:
? NAME: MISROCK, S. LESLIE
? REGISTRATION NUMBER: 18,872
? REFERENCE/DOCKET NUMBER: 7005-026-999
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 212-790-9090
? TELEFAX: 212-869-9741
? TELEX: 66141 PENNIE
? INFORMATION FOR SEQ ID NO: 1:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 1644 base pairs
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? TYPE: NUCLEIC ACID
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? MOLECULE TYPE: cDNA
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? FEATURE:
? NAME/KEY: CDS
? LOCATION: 1..1644
? US-07-675-211-1

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seq_documentation_block:
; Sequence 1, Application US/07903047
; Patent No. 529285
; GENERAL INFORMATION:
; APPLICANT: Kajiyama, Naoki
; APPLICANT: Nakano, Eiichi
; TITLE OF INVENTION: Thermostable Luciferase Of Firefly,
; TITLE OF INVENTION: Thermostable Luciferase Gene Of Firefly, No. 529285el Reco
; TITLE OF INVENTION: DNA, And Process For The Preparation Of Thermostable
; TITLE OF INVENTION: Luciferase Of Firefly
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue Of The Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/903,047
; FILING DATE: 19920623
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Mistock, S. Leslie
; REGISTRATION NUMBER: 18,872
; REFERENCE/DOCKET NUMBER: 7005-048
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212 790-9090
; TELEFAX: 212 869-8864/9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1644 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: unknown
; MOLECULE TYPE: cDNA to mRNA
US-07-903-047-1

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Quality: 2684.00 Length: 548
Ratio: 4.943 Gaps: C
Percent Similarity: 99.088 Percent Identity: 93.431
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US-09-581-241-4 x US-07-903-047-1 ..
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seq_name: /cgn2_6/ptodata/2/ina/5B_COMB.seq;us-08-757-046A-3
seq_documentation_block:
; Sequence 3, Application: US/08/757046A
; Patent No. 5876995
; GENERAL INFORMATION:
; APPLICANT: BRYAN, BRUCE
; TITLE OF INVENTION: BIOLUMINESCENT ARTICLES OF MANUFACTURE
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Brown, Martin, Haller & McClain
; STREET: 1660 Union Street
; CITY: San Diego
; STATE: CA
; COUNTRY: USA
; ZIP: 92101-2926
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/757,046A
; FILING DATE: 11-25-96
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/597,274
; FILING DATE: 02-06-96
; ATTORNEY/AGENT INFORMATION:
; NAME: Seidman, Stephanie L
; REGISTRATION NUMBER: 33,779
; REFERENCE/DOCKET NUMBER: 6680-105B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-238-0999
; TELEFAX: 619-238-0062
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1644 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:

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; NAME/KEY: Coding Sequence
; LOCATION: 1...1644
; OTHER INFORMATION: Luciola Cruciatra Luciferase (Firefly)
; PUBLICATION INFORMATION:
; DOCUMENT NUMBER: PATENT NO.: 4,958,613
; US-08-757-046A-3

alignment_scores:
Quality: 2684.00 Length: 546
Ratio: 4.943 Gaps: 0
Percent Similarity: 99.088 Percent Identity: 93.431

alignment_block:
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seq_documentation_block:
; Sequence 3, Application US/09447208
; Patent No. 6113886
; GENERAL INFORMATION:
; APPLICANT: Bryan, Bruce
; TITLE OF INVENTION: BIOLUMINESCENT ARTICLES OF MANUFACTURE
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Heller Ehrman White & McAuliffe
; STREET: 4250 Executive Square, 7th Floor
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09447,208
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 0509/135,988
; FILING DATE: 08-17-98
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/7757,046
; FILING DATE: 11-25-96
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/597,274
; FILING DATE: 02-06-96
; ATTORNEY/AGENT INFORMATION:
; NAME: Seidman, Stephanie L
; REGISTRATION NUMBER: 33,779
; REFERENCE/DOCKET NUMBER: 24727-105C
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-450-8400
; TELEFAX: 619-450-8499
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1644 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: Coding Sequence
; LOCATION: 1...1644
; OTHER INFORMATION: Luciola Cruciata Luciferase (Firefly)
; PUBLICATION INFORMATION:
; US-09-447-208-3

alignment_scores:
Quality: 2684.00 Length: 546
Ratio: 4.943 Gaps: 0
Percent Similarity: 99.088 Percent Identity: 93.431

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; Sequence 3, Application JS/09135988

; Patent No. 6152358

; GENERAL INFORMATION:

; APPLICANT: Bryan, Bruce

; TITLE OF INVENTION: BIOLUMINESCENT ARTICLES OF MANUFACTURE

; NUMBER OF SEQUENCES: 14

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Heller Ehrman White & Maulliffe

; STREET: 4250 Executive Square, 7th Floor

; CITY: La Jolla

; STATE: CA

COUNTRY: USA
 ZIP: 92037
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FastSeq Version 1.5
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/135,988
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/597,274
 FILING DATE: 02-06-96
 ATTORNEY/AGENT INFORMATION:
 NAME: Seidman, Stephanie L.
 REGISTRATION NUMBER: 33,779
 REFERENCE/DOCKET NUMBER: 24727-105C
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 619-450-8400
 TELEFAX: 619-450-8499
 TELEX:
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1644 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: Coding Sequence
 LOCATION: 1...1644
 OTHER INFORMATION: Luciola Cruciata Luciferase (Firefly)
 PUBLICATION INFORMATION:
 US-09-135-988-3

alignment_scores:
 Quality: 2684.00 Length: 548
 Ratio: 4.943 Gaps: 0
 Percent Similarity: 99.088 Percent Identity: 93.431
 alignment block:
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; Patent No. 6232107
; GENERAL INFORMATION:
; APPLICANT: Bryan, Bruce
; APPLICANT: Szent-Gyorgyi, Christopher
; APPLICANT: PROLUME, LTD.
; TITLE OF INVENTION: LUCIFERASES, FLUORESCENT PROTEINS, NUCLEIC ACIDS ENCODING THE
; CURRENT FILING DATE: 1999-03-26
; EARLIER APPLICATION NUMBER: 60/102,939
; EARLIER FILING DATE: 1998-10-01
; EARLIER APPLICATION NUMBER: 60/089,367
; EARLIER FILING DATE: 1998-06-15
; EARLIER APPLICATION NUMBER: 60/079,624
; EARLIER FILING DATE: 1998-03-27
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 1644
; TYPE: DNA
; ORGANISM: Luciola cruciata
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1644)
; FEATURE:
; OTHER INFORMATION: Luciola cruciata (firefly) luciferase
; PUBLICATION INFORMATION:
; PATENT DOCUMENT NUMBER: 4,968,613
; PATENT FILING DATE: 1988-07-26
; PUBLICATION DATE: 1990-11-06
; US-09-277-716-3
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Quality: 2684.00      Length: 548
Ratio: 4.943          Gaps: 0
Percent Similarity: 99.088      Percent Identity: 93.431
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Align seg 1/1 to: US-09-277-716-3 from: 1 to: 1644
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seq_documentation_block:
; Sequence 3, Application US/08597274A
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Patent No. 6247995

GENERAL INFORMATION:

APPLICANT: Bryan, Bruce

TITLE OF INVENTION: BIOLUMINESCENT NOVELTY ITEMS

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: Brown, Martin, Haller & McClain

STREET: 1660 Union Street

CITY: San Diego

STATE: CA

COUNTRY: USA

ZIP: 92101-2926

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSeq Version 1.5

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/597,274A

FILING DATE: 02/06/96

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Seidman, Stephanie L

REGISTRATION NUMBER: 33,779

REFERENCE/DOCKET NUMBER: 6680-105

TELECOMMUNICATION INFORMATION:

TELEPHONE: 619-238-0999

TELEFAX: 619-238-0062

TELEX:

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 1644 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: Coding Sequence

LOCATION: 1..1644

OTHER INFORMATION: Luciola Cruciata Luciferase (Firefly)

PUBLICATION INFORMATION:

DOCUMENT NUMBER: 4,968,613

US-08-597-274A-3

alignment_scores:

Quality: 2584.00 Length: 546

Ratio: 4.943 Gaps: 0

Percent Similarity: 99.088 Percent Identity: 93.431

alignment_block:

US-09-581-241-4 x US-08-597-274A-3

Align seg 1/1 to: US-08-597-274A-3 from: 1 to: 1644

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267 uThrLysPheAspGluThrPheLeuLysThrLeuGlnAspTyrLysC 284
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284 yssSerValIleLeuValProThrLeuPheAlaIleLeuAsnArgSer 300
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